

01 SEP 19 2005  
U.S. PATENT & TRADEMARK OFFICE

Sheet 1 of 1

|  |  |   |                                       |                               |
|--|--|---|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)   |  | Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>12780-027001 | Application No.<br>10/773,459 |
| <b>Information Disclosure Statement</b><br><b>by Applicant</b><br><small>(Use several sheets if necessary)</small><br><small>(37 CFR §1.98(b))</small> |  | Applicant<br>Wade Mattar, et al                       |                                       |                               |
|  |  | Filing Date<br>February 9, 2004                       | Group Art Unit<br>2855                |                               |

| U.S. Patent Documents |           |                 |                  |          |       |          |                            |
|-----------------------|-----------|-----------------|------------------|----------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
| QJ                    | AA        | 4,876,879       | 10/31/1989       | Ruesch   |       |          |                            |
| QJ                    | AB        | 5,224,372       | 07/06/1993       | Kolpak   |       |          |                            |
|                       | AC        |                 |                  |          |       |          |                            |
|                       | AD        |                 |                  |          |       |          |                            |
|                       | AE        |                 |                  |          |       |          |                            |
|                       | AF        |                 |                  |          |       |          |                            |
|                       | AG        |                 |                  |          |       |          |                            |
|                       | AH        |                 |                  |          |       |          |                            |
|                       | AI        |                 |                  |          |       |          |                            |
|                       | AJ        |                 |                  |          |       |          |                            |
|                       | AK        |                 |                  |          |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |
|   |           |                 |                  |                          |       |          | Yes No      |
|   | AL        |                 |                  |                          |       |          |             |
|   | AM        |                 |                  |                          |       |          |             |
|   | AN        |                 |                  |                          |       |          |             |
|   | AO        |                 |                  |                          |       |          |             |
|   | AP        |                 |                  |                          |       |          |             |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |          |
|---|-----------|----------|
| Examiner Initial  | Desig. ID | Document |
|   | AQ        |          |
|   | AR        |          |
|   | AS        |          |
|   | AT        |          |

|  |                             |
|--|-----------------------------|
| Examiner Signature<br><i>Jewell V. Thompson</i>  | Date Considered<br>12/22/05 |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                             |

O 175  
FEB 23 2005  
JCSB  
U.S. Patent and Trademark Office

Sheet 1 of 4

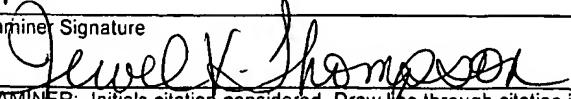
|   |  |  |                                       |                               |
|---|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)  |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>12780-027001 | Application No.<br>10/773,459 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br>Wade Mattar, et al                            |                                       |                               |
| (37 CFR §1.98(b))   |  | Filing Date<br>February 9, 2004                            | Group Art Unit                        |                               |

| U.S. Patent Documents |           |                 |                  |                  |       |          |                            |
|-----------------------|-----------|-----------------|------------------|------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee         | Class | Subclass | Filing Date If Appropriate |
|                       | AA        | Re29383         | Sep., 1977       | Gallatin et al.  |       |          |                            |
|                       | AB        | Re31450         | Nov., 1983       | Smith            |       |          |                            |
|                       | AC        | 3956682         | May., 1976       | Van Dyck         |       |          |                            |
|                       | AD        | 4358822         | Nov., 1982       | Sanchez          |       |          |                            |
|                       | AE        | 4419898         | Dec., 1983       | Zanker et al.    |       |          |                            |
|                       | AF        | 4422338         | Dec., 1983       | Smith            |       |          |                            |
|                       | AG        | 4491025         | Jan., 1985       | Smith et al.     |       |          |                            |
|                       | AH        | 4688418         | Aug., 1987       | Cheung et al.    |       |          |                            |
|                       | AI        | 4727746         | Mar., 1988       | Mikasa et al     |       |          |                            |
|                       | AJ        | 4757390         | Jul., 1988       | Mehrgardt et al. |       |          |                            |
|                       | AK        | 4773257         | Sep., 1988       | Aslesen et al.   |       |          |                            |
|                       | AL        | 4782711         | Nov., 1988       | Pratt            |       |          |                            |
|                       | AM        | 4801897         | Jan., 1989       | Flecken          |       |          |                            |
|                       | AN        | 4817448         | Apr., 1989       | Hargarten et al. |       |          |                            |
|                       | AO        | 4823614         | Apr., 1989       | Dahlin           |       |          |                            |
|                       | AP        | 4852395         | Aug., 1989       | Kolpak           |       |          |                            |
|                       | AQ        | 4852410         | Aug., 1989       | Corwon et al.    |       |          |                            |
|                       | AR        | 4879911         | Nov., 1989       | Zolock           |       |          |                            |
|                       | AS        | 4891991         | Jan., 1990       | Mattar et al.    |       |          |                            |
|                       | AT        | 4895030         | Jan., 1990       | Bergamini et al. |       |          |                            |
|                       | AU        | 4911006         | Mar., 1990       | Hargarten et al. |       |          |                            |
|                       | AV        | 4911020         | Mar., 1990       | Thompson         |       |          |                            |
|                       | AW        | 4934195         | Jun., 1990       | Hussain.         |       |          |                            |
|                       | AX        | 4934196         | Jun., 1990       | Romano           |       |          |                            |
|                       | AY        | 4996871         | Mar., 1991       | Romano           |       |          |                            |
|                       | AZ        | 5027662         | Jul., 1991       | Titlow et al.    |       |          |                            |
|                       | AAA       | 5029482         | Jul., 1991       | Liu et al.       |       |          |                            |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
| <i>Dewell K. Thompson</i>  | 12/22/05        |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

|   |  |  |                                       |                               |
|---|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)  |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>12780-027001 | Application No.<br>10/773,459 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br>Wade Mattar, et al                            |                                       |                               |
| (37 CFR §1.98(b))   |  | Filing Date<br>February 9, 2004                            | Group Art Unit                        |                               |

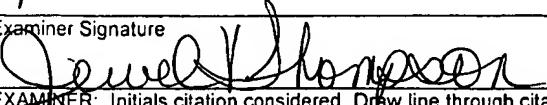
| U.S. Patent Documents |           |                 |                  |                    |       |          |                            |
|-----------------------|-----------|-----------------|------------------|--------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee           | Class | Subclass | Filing Date If Appropriate |
| Q                     | ABB       | 5050439         | Sep., 1991       | Thompson           |       |          |                            |
| Q                     | ACC       | 5052231         | Oct., 1991       | Christ et al.      |       |          |                            |
|                       | ADD       | 5054313         | Oct., 1991       | Fitzgerald et al.  |       |          |                            |
|                       | AEE       | 5054326         | Oct., 1991       | Mattar             |       |          |                            |
|                       | AFF       | 5218869         | Jun., 1993       | Pummer             |       |          |                            |
|                       | AGG       | 5228327         | Jul., 1993       | Bruck              |       |          |                            |
|                       | AHH       | 5259250         | Nov., 1993       | Kolpak             |       |          |                            |
|                       | AII       | 5271281         | Dec., 1993       | Mattar et al.      |       |          |                            |
|                       | AJJ       | 5295084         | Mar., 1994       | Arunachalam et al. |       |          |                            |
|                       | AKK       | 5301557         | Apr., 1994       | Cage et al.        |       |          |                            |
|                       | ALL       | 5343764         | Sep., 1994       | Mattar et al.      |       |          |                            |
|                       | AMM       | 5347874         | Sep., 1994       | Kalotay et al.     |       |          |                            |
|                       | ANN       | 5400653         | Mar., 1995       | Kalotay            |       |          |                            |
|                       | AOO       | 5429002         | Jul., 1995       | Coleman            |       |          |                            |
|                       | APP       | 5469748         | Nov., 1995       | Kalotay            |       |          |                            |
|                       | AQQ       | 5497665         | Mar., 1996       | Cage et al.        |       |          |                            |
|                       | ARR       | 5497666         | Mar., 1996       | Patten et al.      |       |          |                            |
|                       | ASS       | 5535632         | Jul., 1996       | Kolpak             |       |          |                            |
|                       | ATT       | 5555190         | Sep., 1996       | Derby et al.       |       |          |                            |
|                       | AUU       | 5570300         | Oct., 1996       | Henry et al.       |       |          |                            |
|                       | AVV       | 5578764         | Nov., 1996       | Yokoi et al.       |       |          |                            |
|                       | AWW       | 5594180         | Jan., 1997       | Carpenter et al.   |       |          |                            |
|                       | AXX       | 5648616         | Jul., 1997       | Keel               |       |          |                            |
|                       | AYY       | 5654502         | Aug., 1997       | Dutton             |       |          |                            |
|                       | AZZ       | 5687100         | Nov., 1997       | Buttler et al.     |       |          |                            |
| Q                     | AAAA      | 5732193         | Mar., 1998       | Aberson            |       |          |                            |
| Q                     | ABBB      | 5734112         | Sep., 1996       | Bose et al.        |       |          |                            |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
|   | 12/22/05        |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |

|   |  |  |                                       |                               |
|---|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)  |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>12780-027001 | Application No.<br>10/773,459 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br>Wade Mattar, et al                            |                                       |                               |
| (37 CFR §1.98(b))   |  | Filing Date<br>February 9, 2004                            | Group Art Unit                        |                               |

| U.S. Patent Documents |           |                 |                  |                    |       |          |                            |
|-----------------------|-----------|-----------------|------------------|--------------------|-------|----------|----------------------------|
| Examiner Initial      | Desig. ID | Document Number | Publication Date | Patentee           | Class | Subclass | Filing Date If Appropriate |
| qj                    | ACCC      | 5774378         | Jun., 1998       | Yang               |       |          |                            |
| qj                    | ADDD      | 5804741         | Sep., 1998       | Freeman            |       |          |                            |
|                       | AEEE      | 5877954         | Mar., 1999       | Kimasauskas et al. |       |          |                            |
|                       | AFFF      | 5926096         | Jul., 1999       | Mattar et al.      |       |          |                            |
|                       | AGGG      | 5969264         | Oct., 1999       | Rivkin             |       |          |                            |
|                       | AHHH      | 6073495         | Jun., 2000       | Stadler            |       |          |                            |
|                       | AIII      | 6092429         | Jul., 2000       | Cunningham et al.  |       |          |                            |
|                       | AJJJ      | 6185470         | Feb., 2001       | Pado et al.        |       |          |                            |
|                       | AKKK      | 6309342         | Oct., 2001       | Blazey et al.      |       |          |                            |
|                       | ALLL      | 6301973         | Oct., 2001       | Smith              |       |          |                            |
|                       | AMMM      | 6311136         | Oct., 2001       | Henry et al.       |       |          |                            |
|                       | ANNN      | 6318156         | Nov., 2001       | Dutton et al.      |       |          |                            |
|                       | AOOO      | 6318186         | Nov., 2001       | Smith et al.       |       |          |                            |
|                       | APPP      | 6327914         | Dec., 2001       | Dutton             |       |          |                            |
|                       | AQQQ      | 2002/0033043    | Mar., 2002       | Dutton et al.      |       |          |                            |
|                       | ARRR      | 2002/0038186    | Mar., 2002       | Henry et al.       |       |          |                            |
|                       | ASSS      | 2002/0133307    | Sep., 2002       | Maginnis           |       |          |                            |
|                       | ATTT      | 6505131         | Jan., 2003       | Henrot             |       |          |                            |
|                       | AUUU      | 6505519         | Jan., 2003       | Henry et al.       |       |          |                            |
|                       | AVVV      | 6507791         | Jan., 2003       | Henry et al.       |       |          |                            |
|                       | AWWW      | 6551251         | Apr., 2003       | Zuckerwar et al.   |       |          |                            |
| qj                    | AXXX      | 6564619         | May., 2003       | Dutton et al.      |       |          |                            |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |                       |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-----------------------|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation<br>Yes No |
| qj  | AYYY      | WO 93/21505     | Oct., 1993       | WIPO                     |       |          |                       |
| qj  | AZZZ      | 0 696 726 A     | Feb., 1996       | EPO                      |       |          |                       |

|  |                             |
|--|-----------------------------|
| Examiner Signature<br>  | Date Considered<br>12/22/05 |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                             |

|   |  |  |                                       |                               |
|---|--|--|---------------------------------------|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)  |  | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>12780-027001 | Application No.<br>10/773,459 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary) |  | Applicant<br>Wade Mattar, et al                            |                                       |                               |
|   |  | Filing Date<br>February 9, 2004                            | Group Art Unit                        |                               |
| (37 CFR §1.98(b))   |  |  |                                       |                               |

| Foreign Patent Documents or Published Foreign Patent Applications |           |                 |                  |                          |       |          |             |
|---|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|
| Examiner Initial  | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |
|   |           |                 |                  |                          |       |          | Yes No      |
| QJ  | AAAAA     | 0 698 783       | Feb., 1996       | EPO                      |       |          |             |
|   | BBBBB     | 0 702 212       | Mar., 1996       | EPO                      |       |          |             |
|   | ACCCC     | 0 827 096       | Mar., 1998       | EPO                      |       |          |             |
|   | ADDDE     | WO 00/10059     | Feb., 2000       | WIPO                     |       |          |             |
| QJ  | EEEEE     | WO 02/08703     | Jan., 2002       | WIPO                     |       |          |             |

| Other Documents (include Author, Title, Date, and Place of Publication) |           |  |
|---|-----------|--|
| Examiner Initial  | Desig. ID | Document   |
| QJ  | AFFFF     | DeCarlo, Joseph; "True Mass-Flow Measurement"; Fundamentals of Flow Measurement, Unit 11-2; pp. 208-220; 1984  |
|   | AGGGG     | Grumski, J.T., et al., "Performance of a Coriolis-type Mass Flow Meter in the Measurement of Two-phase (air-liquid) Mixtures", ASME Fluid Engineering Division Publication FED, vol. 17, pp 75-84, 1984                        |
|   | AHHHH     | J. Hemp et al.; "On the Theory and Performance of Coriolis Mass Flowmeters"; Proceedings of the International Conference on Mass Flow Measurement Direct and Indirect; IBC Technical Services; 40 pages; London, February 1989 |
|   | AIIII     | Liu, R.P., et al., "A Neural Network to Correct Mass Flow Errors Caused by Two Phase Flow in a Digital Coriolis Mass Flow Meter". Engineering Science Department, Oxford University  |
|   | AJJJJ     | Luntta, E., et al., "Neural Network Approach to Ultrasonic Flow Measurements", Flow Measurement and Instrumentation, vol. 10, pp 35-43, 1999   |
|   | AKKKK     | Reimann, J., "Developments in Two-Phase Mass Flow Rate Instrumentation", pp 339-402  |
|   | ALLLL     | Skea, A.F., "Effects of Gas Leaks in Oil Flow on Single-Phase Flowmeters", Flow Measurement and Instrumentation, vol. 10, pp 146-150 (1999)  |
|   | AMMMM     | Spitzer, David A., "Mass Flowmeters," Industries Flow Measurement, Chapter 12, pp. 197-210, 1990   |
| QJ  | ANNNN     | Wood, et al., "A Phase-Locked Loop for Driving Vibrating Tube Densimeters," Rev. Sci. Instrum., vol. 60, no. 3, March 1989, pp. 493-494  |

|  |                 |
|--|-----------------|
| Examiner Signature   | Date Considered |
|   | 12/22/05        |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                 |